

Supplementary Material

Figure S1. Metal(loid) profiles in VN1 and VN3 sediment cores.

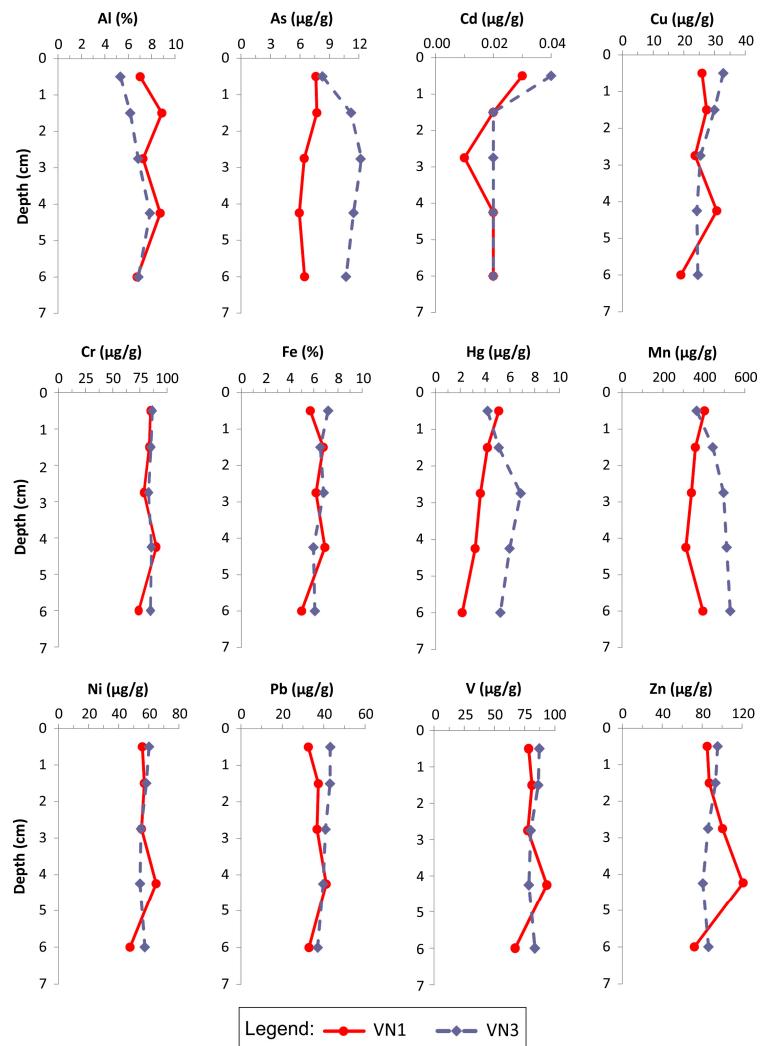


Table S1. Enrichment factors (EFs) calculated for all metal(loid)s for each level of the sediment cores (VN1 and VN3).

Site	Level cm	EF										
		As	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	Zn	Hg
VN1	0-1	0.40	9.0	0.53	0.75	1.37	0.78	0.65	1.03	0.64	1.02	13
	1-2	0.32	8.4	0.42	0.63	1.29	0.55	0.53	0.94	0.53	0.83	8.3
	2-3.5	0.33	10	0.48	0.66	1.44	0.64	0.62	1.13	0.62	1.17	8.8
	3.5-5	0.25	9.4	0.46	0.71	1.34	0.49	0.61	1.05	0.62	1.17	6.4
	5-7	0.36	10.8	0.48	0.57	1.25	0.80	0.58	1.08	0.57	0.90	5.6
VN3	0-1	0.58	16	0.72	1.25	2.27	0.93	0.93	1.80	0.94	1.51	14
	1-2	0.68	14	0.61	0.98	1.79	0.98	0.78	1.55	0.80	1.28	15
	2-3.5	0.67	13	0.54	0.75	1.68	0.99	0.66	1.32	0.67	1.06	18
	3.5-5	0.54	12	0.48	0.63	1.28	0.89	0.57	1.13	0.58	0.87	13
	5-7	0.58	11	0.55	0.73	1.50	1.05	0.69	1.20	0.70	1.06	13

Table S2. Log K_D values for all metal(loid)s in each level of cores VN1 and VN3.

Site	Level (cm)	Log K _D											
		Al	As	Cd	Cr	Cu	Fe	Hg	Mn	Ni	Pb	V	Zn
VN1	0-1	7.2	3.2	4.7	5.0	4.3	6.1	4.3	2.6	4.7	4.5	4.2	3.6
	1-2	/	3.2	5.0	4.6	4.2	6.4	4.6	2.7	4.4	4.7	4.2	3.6
	2-3.5	8.2	2.9	5.3	4.8	/	6.8	5.2	2.9	4.5	5.3	4.1	4.4
	3.5-5	/	3.7	5.0	4.9	/	6.8	6.8	3.0	4.6	5.2	4.2	4.6
	5-7	7.3	2.9	5.0	4.7	/	6.4	5.2	3.5	4.4	5.2	4.0	4.2
VN3	0-1	6.0	3.1	4.7	4.5	4.5	5.8	4.6	2.8	4.4	4.5	4.2	3.0
	1-2	6.8	3.1	5.1	4.8	4.2	6.3	4.9	2.8	4.6	5.0	4.1	3.8
	2-3.5	7.1	4.0	5.1	5.0	4.8	6.6	5.0	2.9	4.8	4.9	4.2	3.8
	3.5-5	6.7	3.5	5.1	4.9	/	6.2	4.9	2.9	4.6	5.2	4.2	3.4
	5-7	7.0	3.5	5.0	5.0	4.8	6.4	4.8	3.0	4.7	5.1	4.3	3.8